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Amendments to the Claims:

The listing of claims will replace all prior versions, and listings of claims in the

application. Please amend/cancel/add the claims as follows:

Claim 1 (Currently Amended): A modular microfluidic system comprising at least one base board

having a plurality of fluidly linked fluid supply apertures on one or both sides thereof, a plurality of

microfluidic modules adapted to be detachably attached to the base board, each having one or more

fluid inlets and/or outlets, and a plurality of fluid couplings to effect releasable fluid-tight connection

between a microfluidic module and the at least one base board via a supply aperture on the at least

one base board and an inlet/outlet on the microfluidic module, said fluid coupling comprising a

ferrule insertable into a suitably shaped recess in such an inlet/outlet/aperture to effect a fluid tight

communication therebetween, said ferrule projecting from a surface of one of said base board and

microfluidic module in a direction toward a surface of the other of said base board and microfluidic

module and being resilient at least in the region of fluid-tight connection between said ferrule and

recess.

Claim 2 (Currently Amended): A modular microfluidic system in accordance with claim 1 wherein

any recess into which said ferrule is to be received is shaped accordingly.

Claim 3 (Previously Amended): A modular microfluidic system in accordance with claim 2 wherein

the ferrule is integral with, and projects from, a first aperture comprising either a fluid supply aperture

in the base board or an inlet/outlet in a microfluidic module, and said ferrule is adapted to be received

in a recess comprised as a second aperture, correspondingly either an inlet/outlet in a microfluidic

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module or a supply aperture in the base board.

Claim 4 (Previously Amended): A modular microfluidic system in accordance with claim 1 wherein

the ferrule projects generally perpendicularly from a generally planar surface of the base board, to

effect a fluid connection between a base board and module adapted to lie generally parallel when

connected.

Claim 5 (Cancelled)

Claim 6 (Previously Amended): A modular microfluidic system in accordance with claim 1 further

comprising at least one fluid source aperture fluidly linked thereto to supply source fluid to the

system, and/or at least one fluid output aperture fluidly linked thereto to output fluid from the system.

Claim 7 (Previously Amended): A modular microfluidic system in accordance with claim 1 wherein

the base board is constructed with a pattern of interconnecting microfluidic channels to provide a

plurality of fluid channels and/or chambers in use linking in fluid communication at least some of the

supply apertures to each other and/or to the source aperture.

Claim 8 (Cancelled)

Claim 9 (Cancelled)

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Claim 10 (Previously Amended): A modular microfluidic system in accordance with claim 1 wherein

each microfluidic module has a generally planar construction to be incorporated upon a generally

planar base board.

Claim 11 (Previously Amended): A modular microfluidic system in accordance with claim 1 wherein

different parts the at least one base board and/or microfluidic modules are fabricated from different

materials.

Claim 12 (Cancelled)

Claim 13 (Previously Amended): A modular microfluidic system in accordance with claim 1

wherein a connecting means is provided to hold the assembly together in use and assist in

maintenance of a fluid-tight connection by urging ferrules and corresponding recesses into closer

association and retaining thereat with a suitable urging force.

Claim 14 (Cancelled)

Claim 15 (Cancelled)

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Claim 16 (Previously Amended): A modular microfluidic system in accordance with claim 1 wherein the ferrule is a metallic ferrule to affect an electrical as well as a fluid interconnection.

Claim 17 (Cancelled)

Claim 18 (Cancelled)

Claim 19 (Currently Amended): A method of providing a microfluidic system as a modular assembly comprising the steps of:

providing at least one base board having a plurality of fluidly linked fluid supply apertures on one or both sides thereof and a plurality of fluid channels and/or chambers linking in fluid communication at least some of the supply apertures;

providing a plurality of microfluidic modules, each having one or more fluid inlets and/or outlets and at least one fluid channel or chamber in fluid communication therebetween; providing a fluid coupling comprising a ferrule insertable into a suitably shaped recess in such an inlet/outlet/aperture to effect a fluid tight communication therebetween, said ferrule projecting from a surface of one of said base board and microfluidic module in a direction toward a surface of the other of said base board and microfluidic module and being resilient at least in the region of fluid-tight connection between said ferrule and said recess; connecting the microfluidic modules to the at least one base board via the flexibly resilient ferrule to effect releasable fluid-tight connection therebetween via a supply aperture on the at least one base board and an inlet/outlet on the microfluidic module such that the fluid

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channels or chambers within the microfluidic modules act in co-operation with fluid channels or chambers in the at least one base board to complete a desired microfluidic circuit.

Claim 20 (Previously Presented): A modular microfluidic system in accordance with claim 1, wherein the ferrule is a PTFE tube.